BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Agency	M/s NPR infratech, (Sri N purushotham Raju) SLV Nilaya , No. 38/1, Sankranthi Layout, 4th main, JP Nagar, 7th phase, Bangalore-78

EIRL - 2

Approved Amount	27609031.00
Name of Contractor:-	Sri N Purushotham Raju
Tender premium:-	(+ 1)% Above

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E5	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of material, labour, HOM complete as per specification	m	257.33	937.00	241118.00	alternative	No	-	Pg No 266 of KPWD S.R 2018-19	
E6	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint including cost of material, labour, HOM complete as per specification	Sqm	421.23	779.92	328526.00	alternative	No	-	Pg No 266 of KPWD S.R 2018-19	
E7	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint including cost of material, labour, HOM complete as per specification	m	573.00	445.05	255012.00	alternative	No	-	Pg No 266 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E8	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications. Specification No. KBS 7.12	Kg	313.48	103.63	32485.00	alternative	No	-	Pg No34 of KPWD S.R 2018-19	
E9	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 1.85x 31.75mm. With 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25 mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred sub dividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement	Sqm	12.23	4772.25	58341.00	alternative	No	-	Pg No 34 of KPWD S.R 2018-19	
E10	Providing and fixing M.S. Hand railing for Balcony/ Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm	10.77	3097.87	33349.00	alternative	No	-	Pg No 44 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E11	KSRB 9.4-1 : Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per pecifications. Specification No. KBS 9.33, KSRB 9.4-2 : – do – Honne wood frames	Cum	0.22	95558.44	21081.00	alternative	No	-	Pg No 53 of KPWD S.R 2018-19	
E12	KSRB 9.5 : Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, KSRB 9.5-2 : – do – Honne wood	Sqm	10.10	5150.76	52030.00	alternative	No	-	Pg No 53 of KPWD S.R 2018-19	
E13	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on existing flooring with special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, cost of materials, mortar, labour etc., complete as per specification.	Sqm	143.43	1128.98	161933.00	alternative	No	-	Pg No 109 of KPWD S.R 2018-19	
E14	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing caffolding, including cost of materials, labour, curing complete as per specifications. KSRB15-3.8 : – do – cement mortar 1:4	Sqm	94.59	284.76	26931.00	alternative	No	-	Pg No 116 of KPWD S.R 2018-19	
E15	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS _do_ for Ceramic Tiles of size 30x30cms 6mm thick	Sqm	15.97	1319.87	21073.00	alternative	No	-	Pg No 108 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E16	KSRB 14-17.2 : Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms	Sqm	70.84	1780.19	126112.00	alternative	No	-	Pg No 108 of KPWD S.R 2018-19	
E17	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.	Sqm	39.57	85.08	3367.00	alternative	No	-	Pg No 128 of KPWD S.R 2018-19	
E18	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.	Sqm	6.25	510.49	3190.00	alternative	No	-	Pg No 60 of KPWD S.R 2018-19	
E19	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.	Sqm	6.25	3029.15	18926.00	alternative	No	-	Pg No 60 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E20	KSRB 11-7.2 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of two 7.5 litre P.V.C with automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.Specification No. KBS 11.	Each	2.00	4543.18	9087.00	alternative	No	-	Pg No 80 of KPWD S.R 2018-19	
E21	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). -do- 12.5cms x 7.5cms	Each	7.00	310.88	2177.00	alternative	No	-	Pg No 90 of KPWD S.R 2018-19	
E22	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.	Each	7.00	163.62	1146.00	alternative	No	-	Pg No 90 of KPWD S.R 2018-19	
E23	KSRB 11-11 : Providing and fixing white vitreous china clay, flat back wash basin with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 KSRB 11-11.5 : - do - of size 450 x 300mm Specification No. KBS 11	Unit	4.00	3061.88	12248.00	alternative	No	-	Pg No 83 of KPWD S.R 2018-19	
E24	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Each	5.00	5406.00	27031.00	alternative	No	-	Pg No 79 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E25	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.	Unit	4.00	1239.15	4957.00	alternative	No	-	Pg No 84 of KPWD S.R 2018-19	
E26	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.-do- with 160mm outer dia	m	9.70	1365.68	13248.00	alternative	No	-	Pg No 77 of KPWD S.R 2018-19	
E27	KSRB 13-11 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity) Specification No.KBS 13.22	Nos	1.00	7447.98	7448.00	alternative	No	-	Pg No 96 of KPWD S.R 2018-19	
E28	KSRB 15.3 : Providing 12mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KSRB15-3.2 : – do – cement mortar 1:4	Sqm	156.00	222.52	34713.00	alternative	No	-	Pg No 115 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E29	Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72x72x4.8 mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq.rod for verticals at 150mm c/c , as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats.The work is inclusive of throughing GI, Flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like GI Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes, with all lead and lift, loading, trasportation, unloading, scaffolding charges and all other complete as per specifications and directions of Engineer incharge of work.	Sqm	12.60	12599.75	158757.00	alternative	No	-	Data Rate	
E30	Supplying and fixing new Mangalore tiles on existing reepers including cost of materials, labour, HOM complete as per specifications.	Sqm	4.23	443.96	1880.00	alternative	No	-	Pg No 267 of KPWD S.R 2018-19	
E31	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification	Sqm	45.60	573.76	26164.00	alternative	No	-	Pg No 69 of KPWD S.R 2018-19	

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1	2	3	4	5	6	7	8	9	10	11
E32	Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification	Kg	1106.80	121.08	134011.00	alternative	No	-	Pg No 43 of KPWD . S.R 2018-19	
E33	Basket Ball Court Painting	SFT	6542.08	68.68	449311.00	alternative	No	-	Data Rate	
	TOTAL EIRL AMOUNT				2265652.00					

PERCENTAGE OF EXCESS COMPARING TO SANCTIONED COST $\frac{2265652.00}{27609031.00}$ x100 = **8.21 %**

for NPR INFRATECH

Contractor
Authorised Signatory

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ